

*523,728*  
10/7/2005

L13 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:253129 CAPLUS  
DOCUMENT NUMBER: 140:272686  
TITLE: Process for the preparation of conjugated linoleic acid from glyceridic oils  
INVENTOR(S): Saebo, Asgeir; Saebo, Per Christian  
PATENT ASSIGNEE(S): Natural Asa, Norway  
SOURCE: U.S. Pat. Appl. Publ., 12 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004058998	A1	20040325	US 2002-253216	20020924
US 6743931	B2	20040601		
CA 2499138	AA	20040408	CA 2003-2499138	20030924
WO 2004029186	A2	20040408	WO 2003-IB4897	20030924
WO 2004029186	A3	20040805		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1546295	A2	20050629	EP 2003-758523	20030924
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2004225142	A1	20041111	US 2004-858158	20040601
NO 2005001989	A	20050422	NO 2005-1989	20050422
PRIORITY APPLN. INFO.:			US 2002-253216	A 20020924
			WO 2003-IB4897	W 20030924

AB The present invention relates to the manuf. of conjugated linoleic acid which utilize alcoholate catalysts and esters of sunflower oil, safflower oil, or corn oil as the source of linoleic acid. Furthermore, the esters can be converted into free fatty acids by sapon. and acidification.

L13 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2001:417113 CAPLUS  
DOCUMENT NUMBER: 135:34600  
TITLE: Method for commercial preparation of conjugated linoleic acid  
INVENTOR(S): Reaney, Martin J. T.; Liu, Ya-Dong; Westcott, Neil D.  
PATENT ASSIGNEE(S): Her Majesty In Right of Canada as Represented by the Minister of Agriculture, Can.  
SOURCE: PCT Int. Appl., 23 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001040419	A2	20010607	WO 2000-CA1308	20001108

523,708  
10/713,005

WO 2001040419 A3 20011004

W: CA

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,  
PT, SE, TR

US 6420577 B1 20020716 US 1999-451710 19991201  
CA 2393403 AA 20010607 CA 2000-2393403 20001108

PRIORITY APPLN. INFO.: US 1999-451710 A 19991201  
WO 2000-CA1308 W 20001108

AB Simultaneous sapon. and quant. **isomerization** of glyceride oils contg. interrupted double bond systems, with alkali in H<sub>2</sub>O yields soaps with conjugated double bonds. Novel methods of hydrolysis of the soap product with acid to form fatty acid-H<sub>2</sub>O emulsions and the breaking of those emulsions are also disclosed. A vegetable oil rich in linoleic acid such as sunflower or safflower oil, KOH, phosphoric acid to neutralize the soaps, and an emulsion breaking compd., e.g. EtOH or other monohydric alc., tannins (either hydrolyzable or condensed tannin) or polyethylene glycol, are the preferred reactants/reagents. The reaction forms positional and geometric isomers of conjugated linoleic acid and the preferred isomer mixt. is controlled by a combination of agitation, precisely controlled heating and rapid initiation and termination of the reaction. The reaction product compn. may be enriched by crystn.